

I Claim:

546 C1 1. A chimeric embryo comprising cells from a first and one or more second animal species, wherein said first animal species is human, and wherein said second animal species is

non-human ~~mammals~~ primate

2. The chimeric embryo according to Claim 1, wherein said cells from said first animal species are embryonic cells.

546 C2 3. The chimeric embryo according to Claim 1, wherein said cells from said first animal species are embryonic stem cells.

4. The chimeric embryo according to Claim 1, wherein said cells from said first animal species are comprised of a mixture of both embryonic cells and embryonic stem cells.

5. The chimeric embryo according to Claim 1, wherein said cells from said second animal species are embryonic cells. said one or more at least one of

6. The chimeric embryo according to Claim 1, wherein said cells from said second animal species are embryonic stem cells. said one or more at least one of

7. The chimeric embryo according to Claim 1, wherein said cells from said second animal species are comprised of a mixture of both embryonic cells and embryonic stem cells. said one or more at least one of

8. The chimeric embryo according to Claim 1, wherein one or more said cells from said first animal species comprises one or more transgenes.

9. The chimeric embryo according to Claim 1, wherein one or more said cells from said second animal species comprises one or more transgenes. at least one of

546 C4 10. A cell line developed from a chimeric embryo comprising cells from a first and one or more second animal species, wherein said first animal species is human, and wherein said isolated generated one or more

second animal species is non-human, wherein said cells from said first animal species are selected from among the group ^{consisting of} comprising embryonic cells; embryonic stem cells; and a mixture of both embryonic cells and embryonic stem cells, and wherein said cells from said ^{one or more} second animal species are selected from among the group ^{consisting of} comprising: embryonic cells; embryonic stem cells; and a mixture of both embryonic cells and embryonic stem cells.

11. The cell line according to Claim 10, wherein one or more of said cells from said first animal species comprises one or more transgenes.

12. The cell line according to Claim 10, wherein one or more of said cells from said second animal species comprises one or more transgenes.

13. ^{A chimeric animal derived} An animal developed from a chimeric embryo comprising cells from a first and one

or more second animal species, wherein said first animal species is human; and wherein said

second animal species is non-human, wherein said cells from said first animal species are selected

from among the group ^{consisting of} comprising: embryonic cells; embryonic stem cells; and a mixture of both

embryonic cells and embryonic stem cells, and wherein said cells from said ^{one or more} second animal species

are selected from among the group ^{consisting of} comprising: embryonic cells; embryonic stem cells; and a mixture of both embryonic cells and embryonic stem cells.

14. The animal according to Claim 13, wherein one or more of said cells from said first animal species comprises one or more transgenes.

15. The animal according to Claim 13, wherein one or more of said cells from said second animal species comprises one or more transgenes.

16. A descendant of said ^{chimeric} animal of Claim 13.

17. A descendant of said animal of Claim 14.

18. A descendant of said animal of Claim 15.

19. A chimeric embryo comprising cells from a first and one or more second animal species, wherein said first animal species is human, and wherein ^{at least one} said second animal species is a non-human primate.

20. The chimeric embryo according to Claim 19, wherein said cells from said first animal species are embryonic cells.

21. The chimeric embryo according to Claim 19, wherein said cells from said first animal species are embryonic stem cells.

22. The chimeric embryo according to Claim 19, wherein said cells from said first animal species are comprised of a mixture of both embryonic cells and embryonic stem cells.

23. The chimeric embryo according to Claim 19, wherein said cells from ^{at least one} said second animal species are embryonic cells.

24. The chimeric embryo according to Claim 19, wherein said cells from ^{at least one} said second animal species are embryonic stem cells.

25. The chimeric embryo according to Claim 19, wherein said cells from ^{at least one} said second animal species are comprised of a mixture of both embryonic cells and embryonic stem cells.

26. The chimeric embryo according to Claim 19, wherein one or more said cells from said first animal species comprises one or more transgenes.

27. The chimeric embryo according to Claim 19, wherein one or more said cells from ^{at least one} said second animal species comprises one or more transgenes.

~~28. A chimeric embryo comprising cells from a first and one or more second animal species, wherein said first animal species is human, and wherein said ^{one or more} second animal species is~~

a selected from among the group ^{consisting of} ~~comprising~~ chimpanzee, baboon, rhesus monkey, maeaque, domestic pig, mouse, rat, and rabbit.

29. The chimeric embryo according to Claim 28, wherein said cells from said first animal species are embryonic cells.

sub C' 30. The chimeric embryo according to Claim 28, wherein said cells from said first animal species are embryonic stem cells.

31. The chimeric embryo according to Claim 28, wherein said cells from said first animal species are comprised of a mixture of both embryonic cells and embryonic stem cells. ^{said one or more}

B 32. The chimeric embryo according to Claim 28, wherein said cells from ^{at least one of} said second animal species are embryonic cells.

33. The chimeric embryo according to Claim 28, wherein said cells from ^{said one or more} ~~at least one of~~ said second animal species are embryonic stem cells.

B 34. The chimeric embryo according to Claim 28, wherein said cells from ^{said one or more} ~~at least one of~~ said second animal species are comprised of a mixture of both embryonic cells and embryonic stem cells.

35. The chimeric embryo according to Claim 28, wherein one or more said cells from said first animal species comprises one or more transgenes.

a 36. The chimeric embryo according to Claim 28, wherein one or more said cells from ^{at least one of} said second animal species comprises one or more transgenes.